## WHAT IS CLAIMED IS:

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## 1. A tire valve puller comprising:

a pulling rod having one end provided with an open slot disposed thereon and two through holes oppositely disposed on a circumferential wall thereof in communication with said open slot, a pivot pin capable of being passed through said two through holes;

a joint capable of being pivoted above said open slot of said pulling rod and having a connecting rod disposed at a lower end thereof, said connecting rod provided with a through hole disposed thereon for being passed through by said pivot pin; and,

characterized by said joint having an insertion bore disposed therein, at least two retaining holes disposed on a circumferential wall thereof, at least two slots disposed on said circumferential wall thereof in communication with said insertion bore, and an annular groove disposed adjacent an upper end of an outer surface of said circumferential wall thereof;

at least two elastic clip members capable of being respectively disposed on said circumferential wall of said joint, and each having a retaining part disposed at a lower end thereof and an engagement head disposed at an upper end thereof;

a spring capable of being mounted around said joint;

a sleeve capable of being covered outside around said joint, and having a stop edge disposed at an upper portion of an inner surface thereof and a recessed chamber disposed at a lower portion of said inner surface thereof, said inner surface of said sleeve designed to be a tapered plane provided with a top wider than a bottom;

a positioning member capable of being engaged with said annular

groove of said joint; and,

whereby a user may firstly push said sleeve downwards with hands to compress said spring so that said at least two elastic clip members can get free of the confinement of said tapered plane of said sleeve and stretch outwardly under their own elasticity to make said engagement heads of said at least two elastic clip members moved out of said insertion bore of said joint to allow said joint to be connected with a tire valve, and then put said sleeve away from the hands so that said sleeve is immediately moved back to its initial position under the resilience of said spring to make said tapered plane of said sleeve confine said at least two elastic clip members therein to force said engagement heads of said at least two elastic clip members to be extended into said insertion bore of said joint and engaged with external threads of said tire valve, thereby clamping said tire valve firmly for the convenience of pulling said tire valve outwardly to be protruded out of a wheel rim without wearing said external threads of said tire valve or deforming said tire valve to influence its using effect, very convenient in operation.

## 2. A tire valve puller comprising:

a pulling rod having one end provided with an open slot disposed thereon and two through holes oppositely disposed on a circumferential wall thereof in communication with said open slot, a pivot pin capable of being passed through said two through holes;

a joint capable of being pivoted above said open slot of said pulling rod and having a connecting rod disposed at a lower end thereof, said connecting rod provided with a through hole disposed thereon for being passed through by said pivot pin; and,

characterized by said pulling rod having a plastic covering support sleeved thereon and a grip disposed at the other end thereof, said

covering support provided with a plurality of engagement grooves disposed thereon; and,

whereby a user may firstly make one of said plurality of engagement grooves of said covering support securely engaged with a flange of a wheel rim of which engaging location can be functioned as a fulcrum, and then hold said grip of said pulling rod with one hand to make said pulling rod tightly pressed against said fulcrum and further apply force in a direction toward a tire so as to pull a tire valve outwardly to be protruded out of said wheel rim without damaging said flange of said wheel rim under improper force of said pulling rod, very convenient in operation.

## 3. A tire valve puller comprising:

a pulling rod having one end provided with an open slot disposed thereon and two through holes oppositely disposed on a circumferential wall thereof in communication with said open slot, a pivot pin capable of being passed through said two through holes;

a joint capable of being pivoted above said open slot of said pulling rod and having a connecting rod disposed at a lower end thereof, said connecting rod provided with a through hole disposed thereon for being passed through by said pivot pin; and,

characterized by said pulling rod provided with a bent part disposed thereon for the convenience of applying force to quickly pull a tire valve outwardly.